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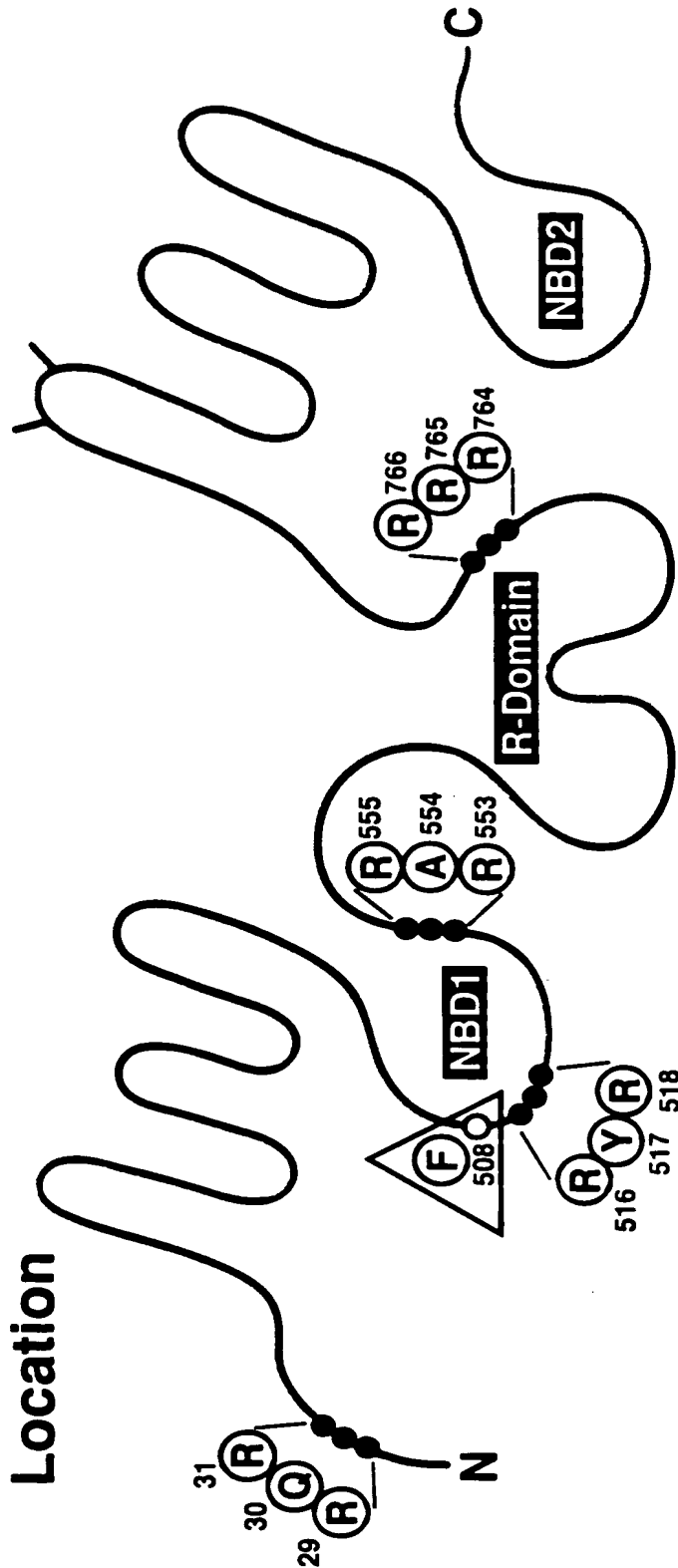


FIG. 1A

Mutagenesis

| | | | |
|---------------|---------------------------|---|---------------------------|
| R29K: | ²⁹ RQR | → | ²⁹ KQR |
| R516K: | ⁵¹⁶ RYR | → | ⁵¹⁶ KYR |
| R555K: | ⁵⁵⁵ RAR | → | ⁵⁵⁵ RAK |
| R766K: | ⁷⁶⁶ RRR | → | ⁷⁶⁶ RRK |

FIG. 1B

4RK: R29K + R516K + R555K + R766K

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Western Blot Analysis

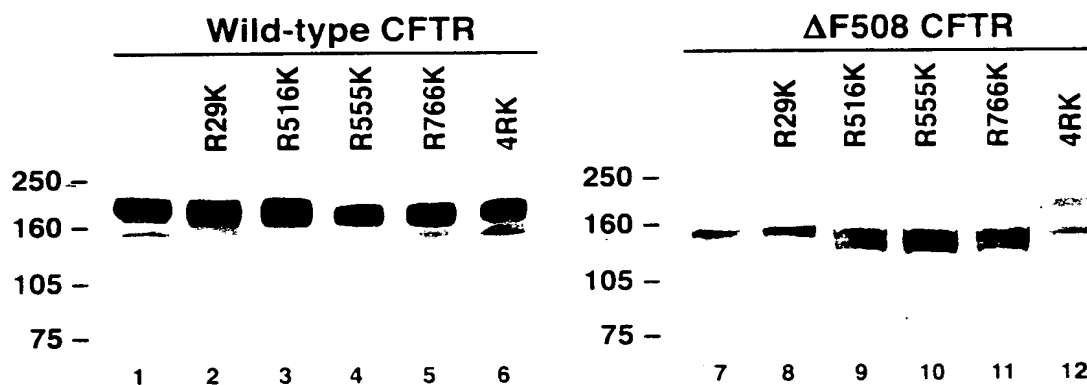


FIG. 1C

Endo-H Digestion

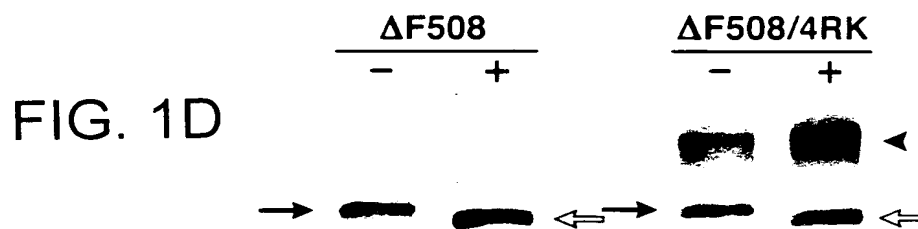


FIG. 1D

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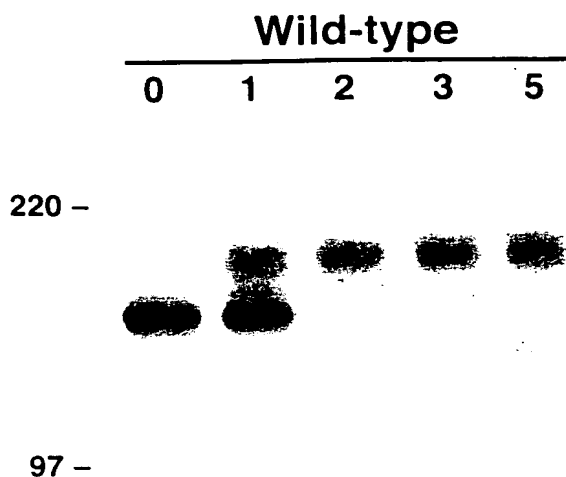


FIG. 2A

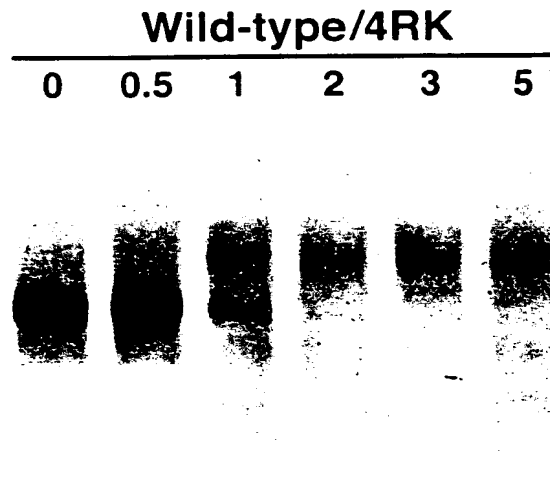


FIG. 2B

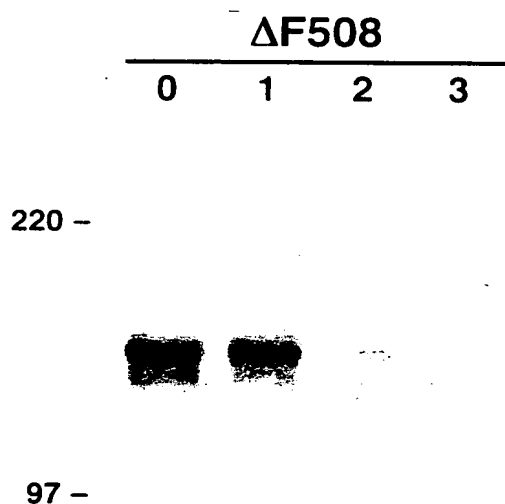


FIG. 2C

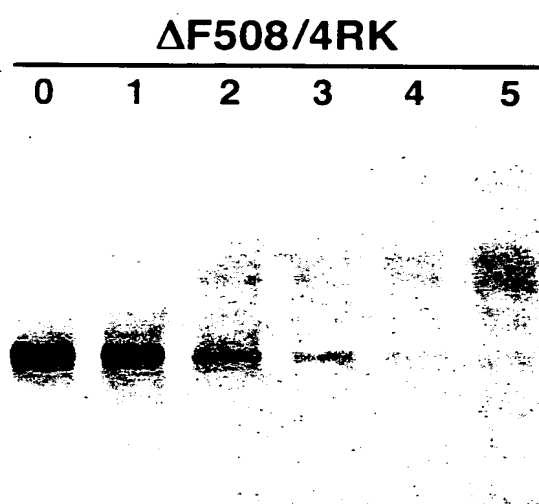
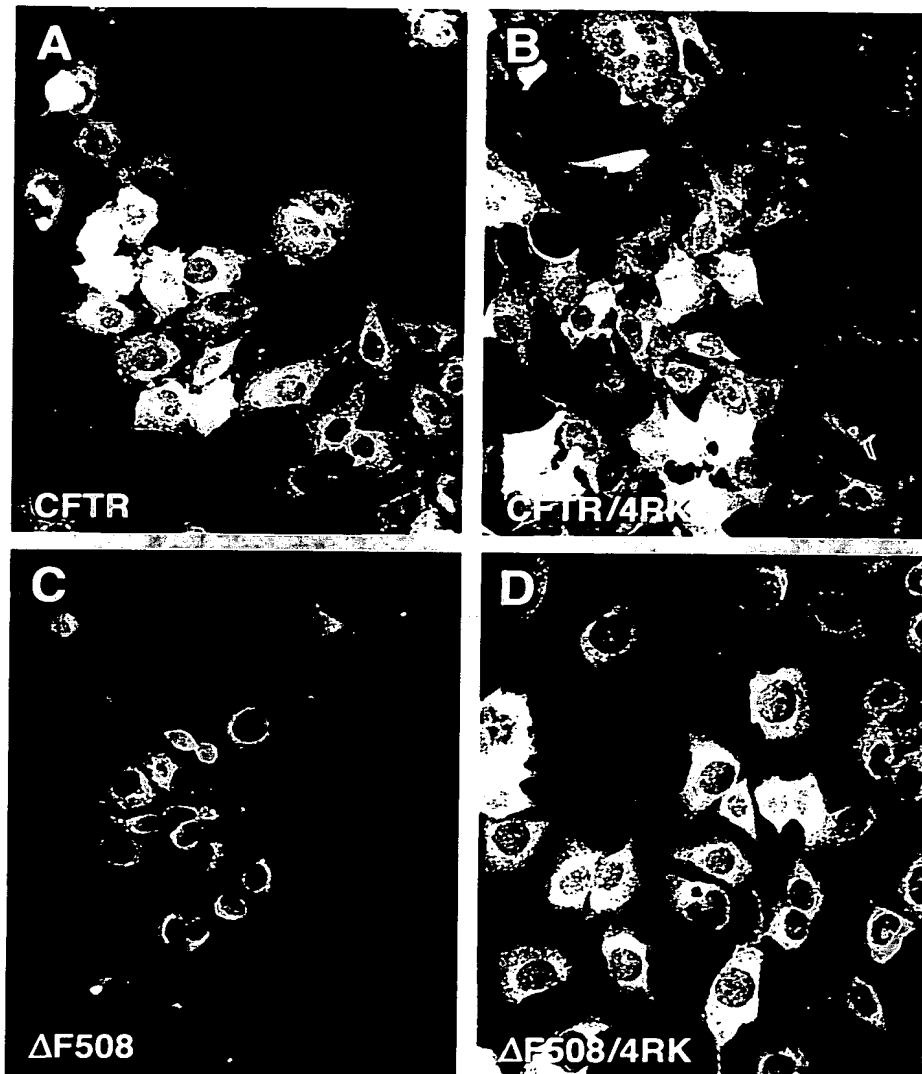


FIG. 2D

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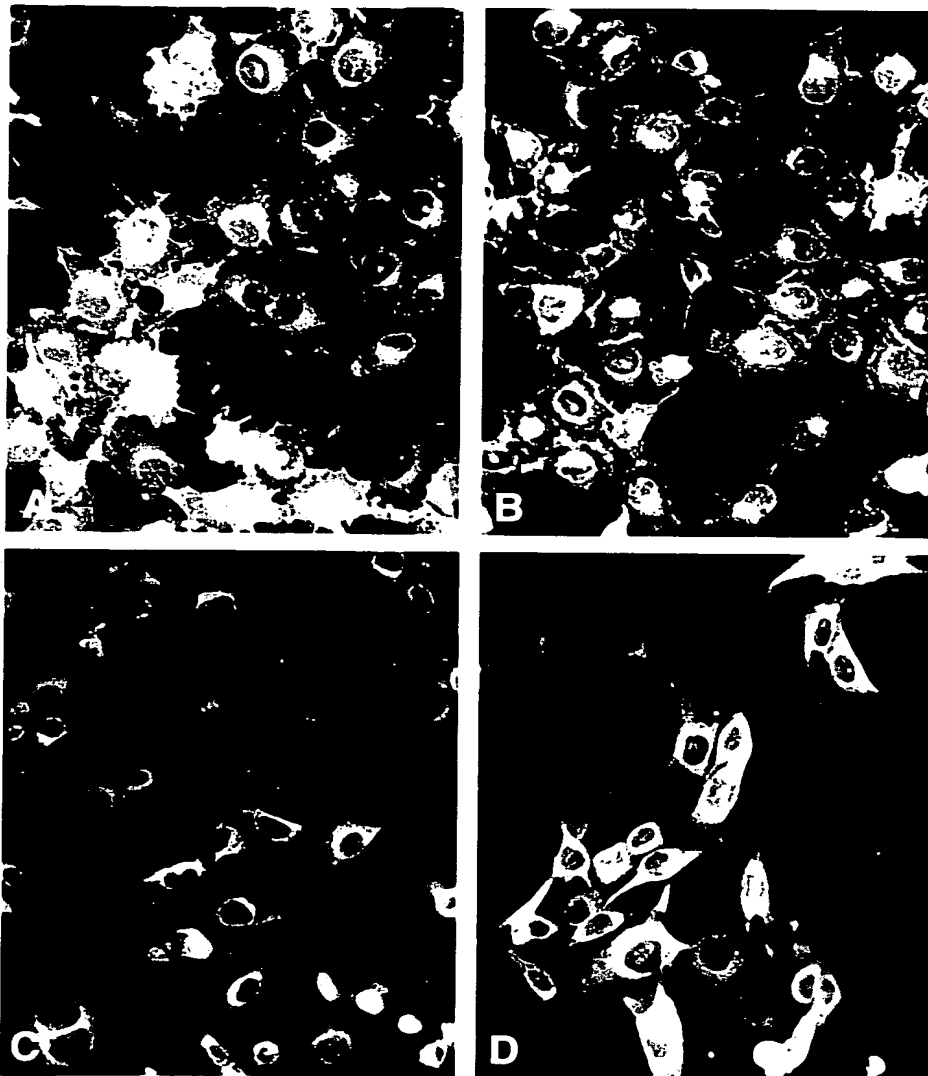
FIG. 3



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FIG. 4



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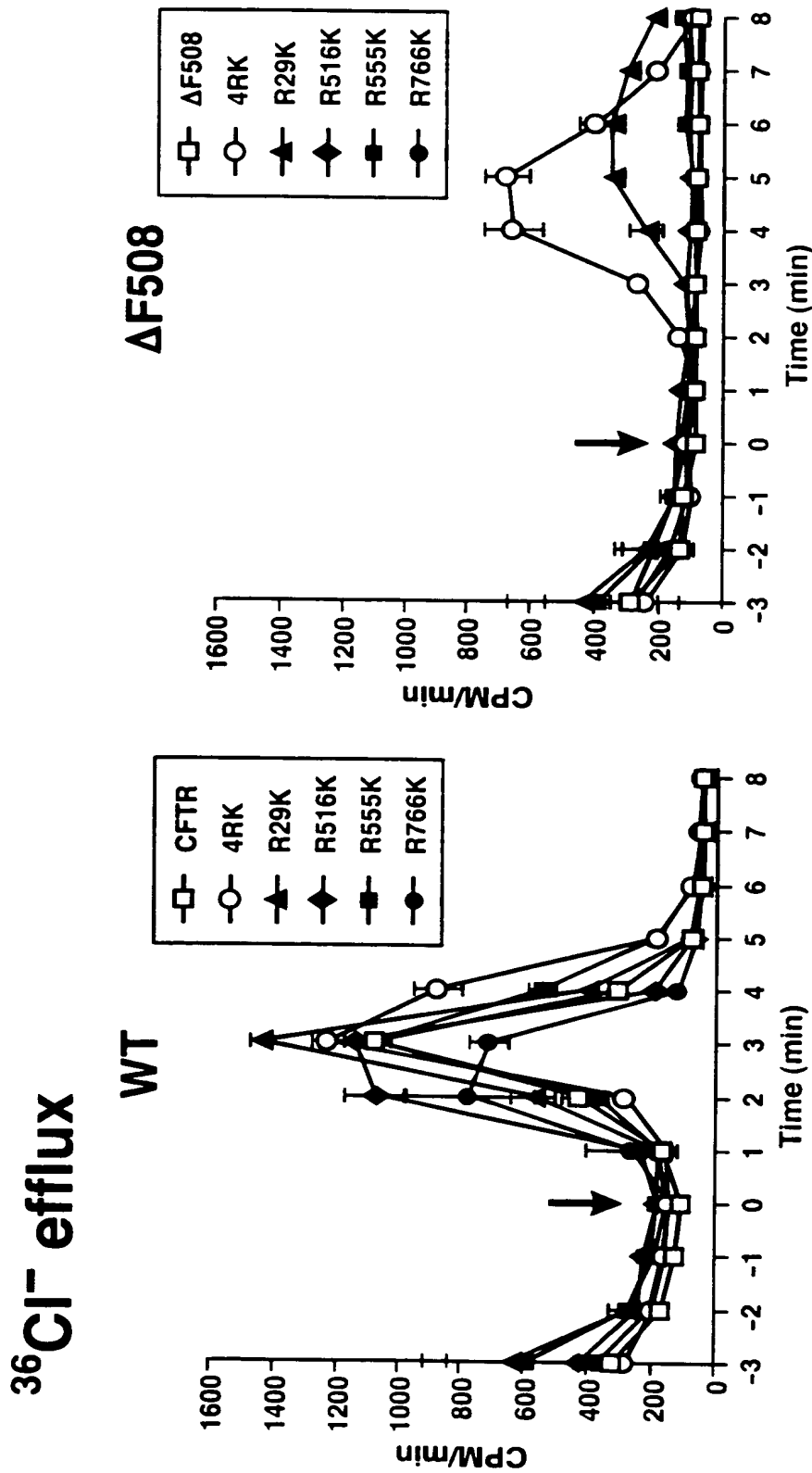
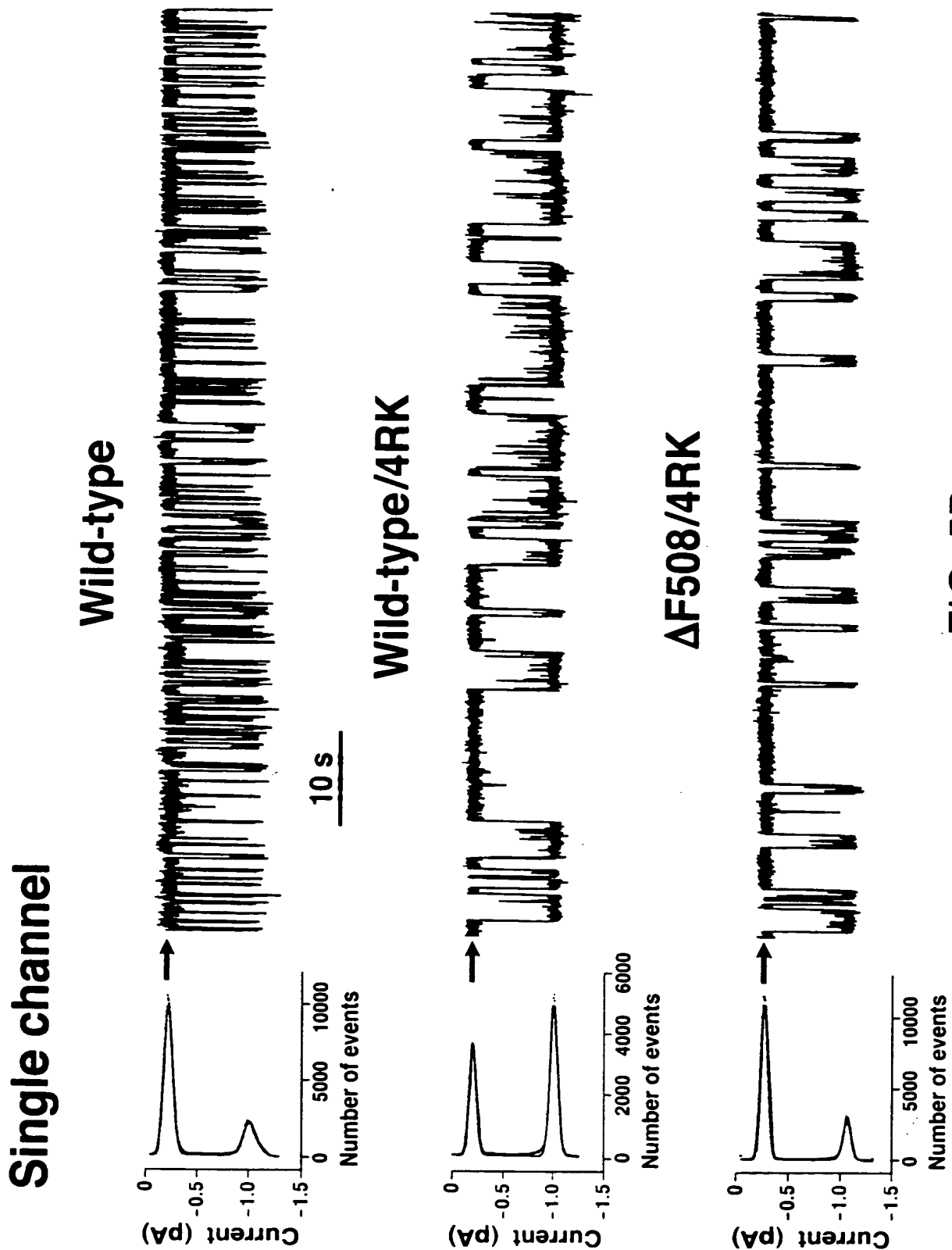


FIG. 5A

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HUMAN CYSTIC FIBROSIS TRANSMEMBRANE
CONDUCTANCE REGULATOR

1 mqrsplekas vvsklffswt rpilrkgyrq rlelsdiyqi psvdsadnls eklerewdre
61 laskknpkli nalrrcfffwr fmfygifyl gevtkavqpl llgriasyd pdnkeersia
121 iylgiglcil fivrtlllhp aifglhhigm qmriamfsli ykktklssr vldkisigql
181 vsllsnnlnk fdeglalahf vwiaqlqval lmgliwellq asafcglgfl ivlalfqagl
241 grmmmkryrdq ragkiserlv itsemieniq svkaycweea mekmienlrq telkltrkaa
301 yvryfnssaf ffsqffvfl svlpyalikg iilrkiftti sfcivlrnav trqfpwavqt
361 wydslgaink iqdfllqkqey ktleynlttt evvmenvtaf weegfgelfe kakqnnnnrk
421 tsngddslff snfslgtpv lkdiinkier gqllavagst gagktsllmm imgelepseg
481 kikhsgrisf csqfswimpq tikenifgv sydeyryrsv ikacqleedi skfaekdniv
541 lgeggitlsg gqrarislar avykdadllyl ldspfgyl dv ltekeifesc vcklmanktr
601 ilvtskmehl kkadkililh egssyfygtf selqnlqpdf ssklmngcdf dqfsaerns
661 iltetlhrfs legdapvswt etkkqsfkqt gefgekrkns ilnpinsirk fsivqktpql
721 mngieedsde plerrslvp dseqgeailp risvistgpt lqarrqsvl nlmthsvnqg
781 qnihrkttas trkvsalapqa nlteldiysr rlsqetglei seeineedlk ecffddmesi
841 pavttwntyl ryitvhksli fvlwclvif laevaaslvv lwlgnltpql dkgnsthsrn
901 nsyaviitst ssyyvfyiyv gvadtllamg ffrglplvht litvskilhh kmhsvlqap
961 mstlntlkag gilnrfskdi aildllplt ifdfiqllli vigaiavvav lqpyifvatv
1021 pvivafimlr ayflqtsqql kqlesegrsp ifthlvtslk glwtlrafrg qpyfetlfhk
1081 alnlhtanwf lylstlrwfq mriemifvif fiavtfisil ttegegrvg iiltlammim
1141 stlqwavnss idvdslmrsv srvfkfidmp tegkptkstk pykngqlskv miienshvkk
1201 ddiwpsggqm tvkdltakyt eggnaileni sfsispgqrv gllgrtgsgk stllsafirl
1261 Integeiqid gvswwsitlq qwrkafgvip qkvfifsgtf rknldpyeqw sdqeiwkvad
1321 evglrsvieq fpgkldfvlv dggcvlshgh kqlmclarsv lskakilld epsahldpvt
1381 yqiirtlkq afadctvilc ehrieamlec qqflvieenk vrqydsiqkl lnerslfrqa
1441 ispsdrvklf phrnssckcs kpqiaalkee teevqdtrl

FIG. 6